Assignment 5

Repetition Statements
Q1: What is the result of executing the following program?

```java
public class WhileExample {
    public static void main(String[] args) {
        int x = 0;
        while(x > -1) {
            System.out.println("x= " + x);
            x = 0;
        }
    }
}
```

A) Nothing gets printed
B) x= -1 gets printed once
C) x= 0 gets printed indefinitely
D) Compile error
E) Prints x= -1 then x= 0
Q2: Which of these is true regarding do-while statements?

A) do-while statements cannot be nested within one another.

B) do-while statements cannot lead to infinite loops.

C) do-while statements cannot contain method invocations in the body of the loop.

D) The minimum number of times the loop is executed in a do-while loop is zero.

E) do-while loops do not permit the use of comma.
Q3: How many times does “A” get printed in the following program

```java
public class WhileExample {
    public static void main(String[] args) {
        int x = 0;
        while (x < 5) {
            while (x < 5) {
                System.out.print("A");
                x++;
            }
            x++;
        }
    }
}
```

A) 0    B) 1    C) 5    D) 2    E) 3
Q4: What is the output of the following program?

```java
public class WhileExample {
    public static void main(String[] args) {
        boolean done=false;
        for(; !done ;) {
            System.out.println("Not done");
            done=true;
        }
    }
}
```

A) Error: initialization is missing in the for loop
B) Error: iteration is missing in the for loop
C) Error: condition does not evaluate to boolean
D) Prints “Not done” once.
E) Nothing gets printed and no error.
Q5: Choose the correct statement among the following

A) Only integers are valid counter variable types in for loops.

B) There are no restrictions on the number of statements inside a loop.

C) The break statement only works inside the innermost loop of nested loops.

D) Any changes to variables made inside loops are not visible outside the loop.

E) Minimum number of times the loop is executed in a for loop is one.